

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please CANCEL claims 1, 3-6, 8-11, and 13-15 and ADD new claims 16-24 in accordance with the following:

Claims 1-15 (CANCELLED)

16. (New) A method for controlling a plurality of threads that perform parallel processing, comprising:
monitoring a number of running threads performing parallel processing and a number of standby threads that are in a standby state for a predetermined time period;
setting a maximum number of running threads in accordance with the number of running threads during the predetermined time period;
comparing the number of standby threads with the maximum number of running threads;
and
terminating a number of standby threads exceeding the maximum number when the number of standby threads is greater than the maximum number.

17. (New) A method for controlling a plurality of threads that perform parallel processing, comprising:
monitoring a number of running threads performing parallel processing and a number of standby threads that are in a standby state for a predetermined time period;
setting an average number of running threads in accordance with the number of running threads during the predetermined time period;
comparing the number of standby threads with the average number of running threads;
and
terminating a number of standby threads exceeding the average number when the number of standby threads is greater than the average number.

18. (New) A method for controlling a plurality of threads that perform parallel processing, comprising:

- monitoring a number of running threads performing parallel processing and a number of standby threads that are in a standby state for a predetermined time period;
- setting a product obtained by multiplying the number of running threads during the predetermined time period by a predetermined coefficient;
- comparing the number of standby threads with the product; and
- terminating a number of standby threads exceeding the product when the number of standby threads is greater than the product.

19. (New) A controller for controlling a plurality of threads that perform parallel processing, comprising:

- a thread management table storing thread information of the plurality of threads, wherein the thread information includes a number of running threads performing parallel processing and a number of standby threads that are in a standby state;
- a thread management circuit requesting thread generation based on the number of standby threads stored in the thread management table, and requesting a standby thread to run;
- a comparison circuit setting a maximum number of running threads during a predetermined period in accordance with the number of running threads included in the thread information, and comparing the number of standby threads with the maximum number of running threads; and
- a termination circuit terminating a number of standby threads exceeding the maximum number when the number of standby threads is greater than the maximum number.

20. (New) A controller for controlling a plurality of threads that perform parallel processing, comprising:

- a thread management table storing thread information of the plurality of threads, wherein the thread information includes a number of running threads performing parallel processing and a number of standby threads that are in a standby state;
- a thread management circuit requesting thread generation based on the number of standby threads stored in the thread management table, and requesting a standby thread to run;
- a comparison circuit setting an average number of running threads during a predetermined time period in accordance with the number of running threads included in the thread information, and comparing the number of standby threads with the average number of

running threads; and

a termination circuit terminating a number of standby threads exceeding the average number when the number of standby threads is greater than the average number.

21. (New) A controller for controlling a plurality of threads that perform parallel processing, comprising:

a thread management table storing thread information of the plurality of threads, wherein the thread information includes a number of running threads performing parallel processing and a number of standby threads that are in a standby state;

a thread management circuit requesting thread generation based on the number of standby threads stored in the thread management table, and requesting a standby thread to run;

a comparison circuit setting a product obtained by multiplying the number of running threads during a predetermined time period by a predetermined coefficient in accordance with the number of running threads included in the thread information, and comparing the number of standby threads with the product; and

a termination circuit terminating a number of standby threads exceeding the product when the number of standby threads is greater than the product.

22. (New) A computer readable storage medium storing a program for controlling at least one processor to execute a plurality of threads that perform parallel processing, according to a method comprising:

monitoring a number of running threads performing parallel processing and a number of standby threads that are in a standby state for a predetermined time period;

setting a maximum number of running threads in accordance with the number of running threads during the predetermined time period;

comparing the number of standby threads with the maximum number of running threads; and

terminating an amount of the standby threads exceeding the maximum number when the number of standby threads is greater than the maximum number.

23. (New) A computer readable storage medium storing a program for controlling at least one processor to execute a plurality of threads that perform parallel processing, according to a method comprising:

monitoring a number of running threads performing parallel processing and a number of

standby threads that are in a standby state for a predetermined time period;
 setting an average number of running threads in accordance with the number of running threads during the predetermined time period;
 comparing the number of standby threads with the average number of running threads;
and
 terminating an amount of the standby threads exceeding the average number when the number of standby threads is greater than the average number.

24. (New) A computer readable storage medium storing a program for controlling at least one processor to execute a plurality of threads that perform parallel processing, according to a method comprising:

 monitoring a number of running threads performing parallel processing and a number of standby threads that are in a standby state for a predetermined time period;
 setting a product obtained by multiplying the number of running threads during the predetermined time period by a predetermined coefficient;
 comparing the number of standby threads with the product; and
 terminating an amount of the standby threads exceeding the product when the number of standby threads is greater than the product.